

## **Generic Emulator of Devices in a Device Communications Protocol**

### **Abstract**

5           The generic device emulator provides an operational emulation of the behavior of  
any desired device within a device connectivity or other communications protocol as  
specified in a description of the respective device. This facilitates development and  
implementation of devices within a device connectivity architecture based on the  
protocol, since the user has only to define the description of the device. The generic  
10 device emulator provides default behaviors for a set of capabilities defined in the  
description for the device, which can be over-ridden or augmented by user-provided  
implementation of specific behavior for a capability. The generic device emulator also  
permits the user to inject defect behaviors, such as to introduce defects in the device's  
implementation of the protocol.

15